

FIGURE 1
(PRIOR ART)

DIRTY
INODE
LIST 210

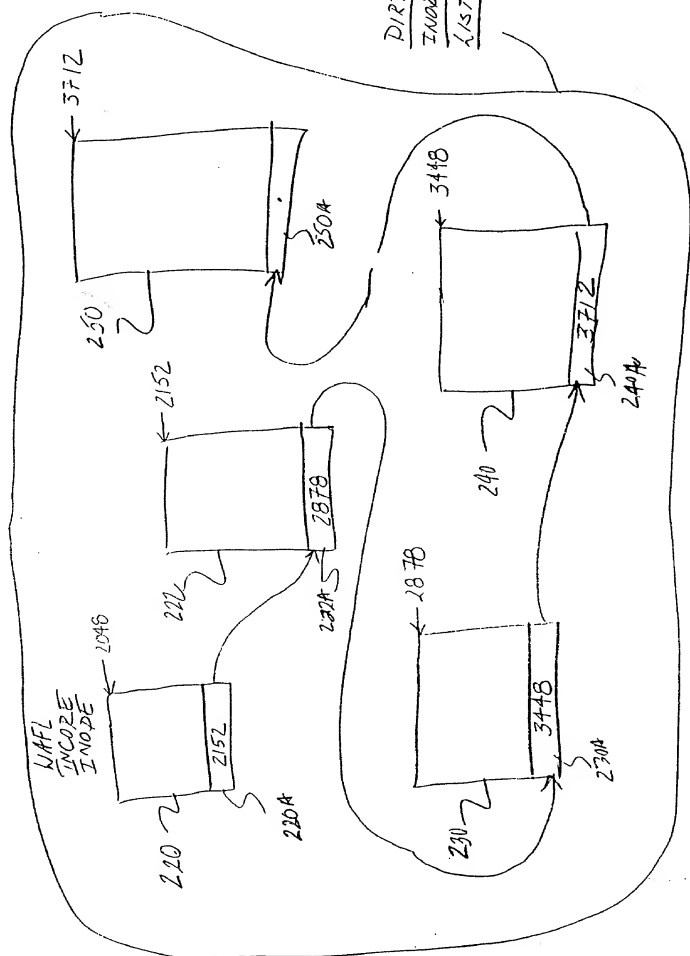
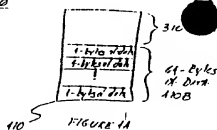
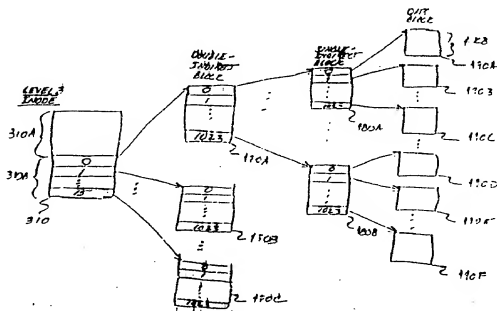
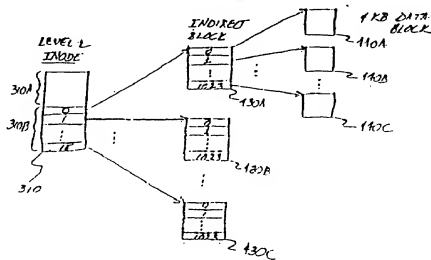
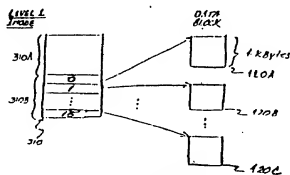


FIGURE 2

LEVEL 0
INDEX



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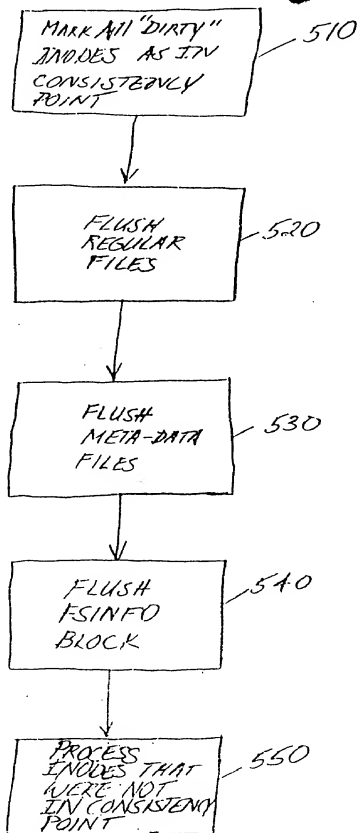


FIGURE 5

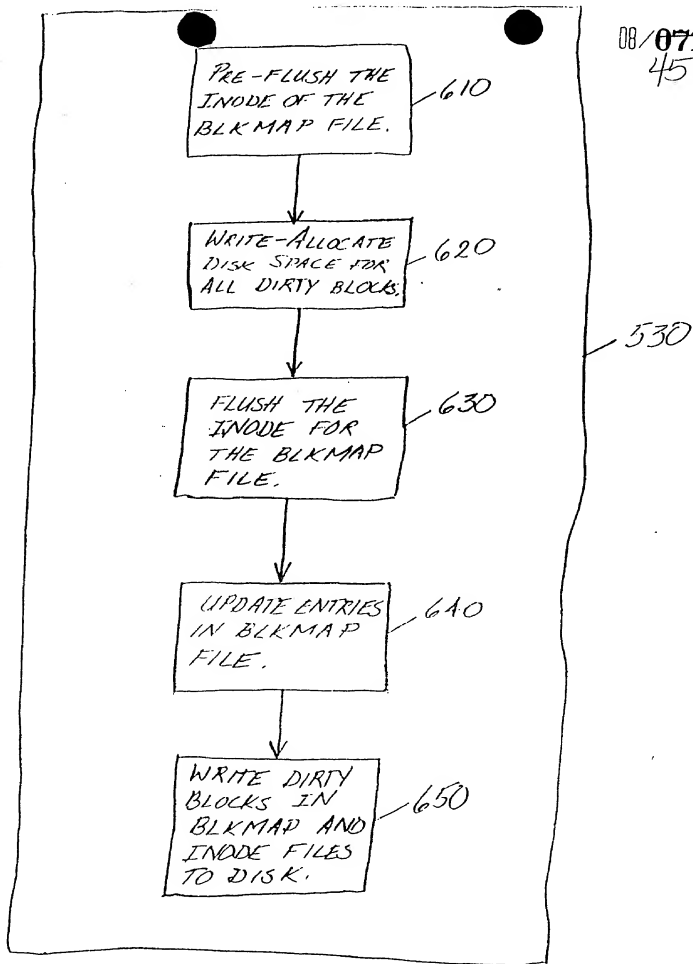


FIGURE 6

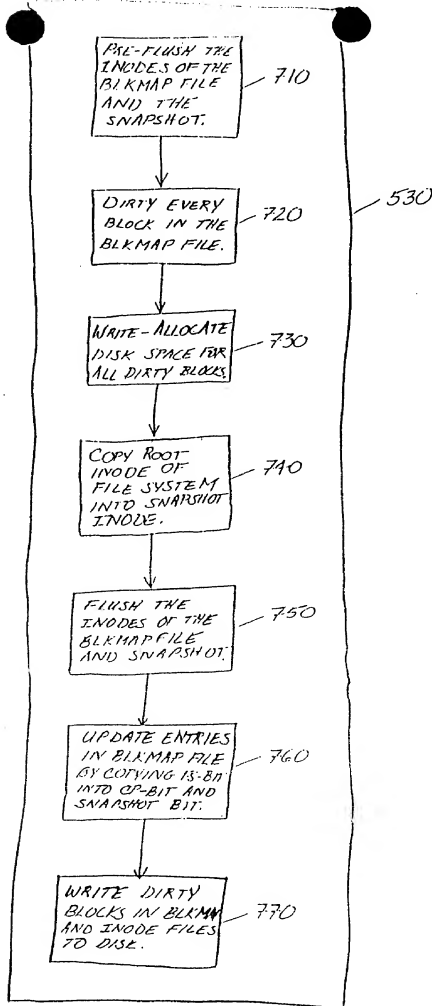
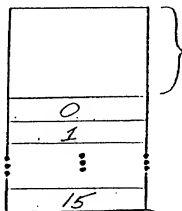


FIGURE 7

ON-DISK
INODE

16 BLOCK
NUMBERS
HAVING SAME
LEVEL OF
INDIRECTION
310B



ON-DISK
INFORMATION 310A
INCLUDING
OWNER, PERMISSIONS,
ACCESS TIME, ETC.

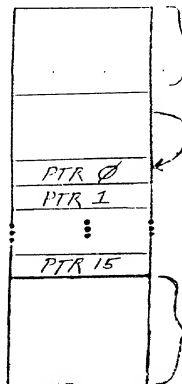
310

FIGURE 3

INCORE
INODE

WAFL BUFFER
DATA
STRUCTURE
820A

16 POINTERS
HAVING SAME
LEVEL OF
INDIRECTION
820B



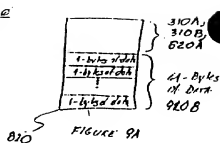
INCORE
INFORMATION 820C
INCLUDING
DIRTY FLAG,
IN-CP FLAG,
LINKED LIST POINTER(S)

ON-DISK
INODE
310

820

FIGURE 8

LEVEL 0
DIRECT



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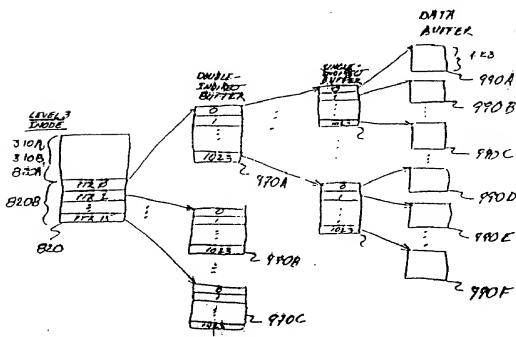
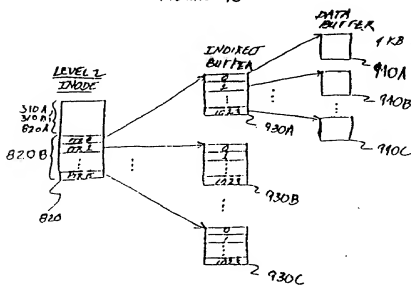
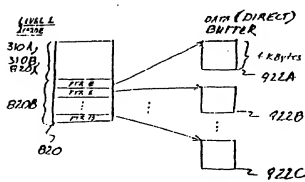


FIG. 9D

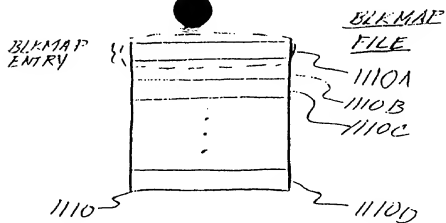


FIGURE 11A

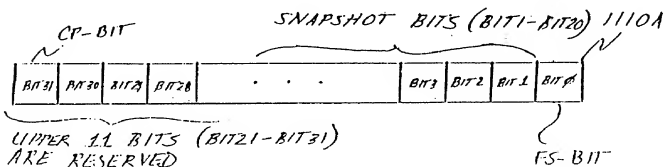


FIGURE 11B

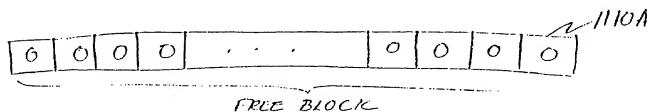


FIGURE 11C

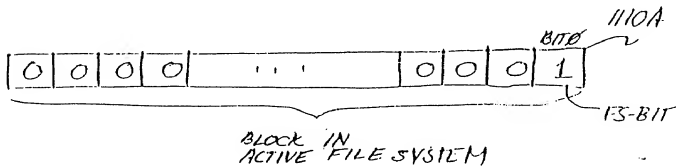


FIGURE 11D

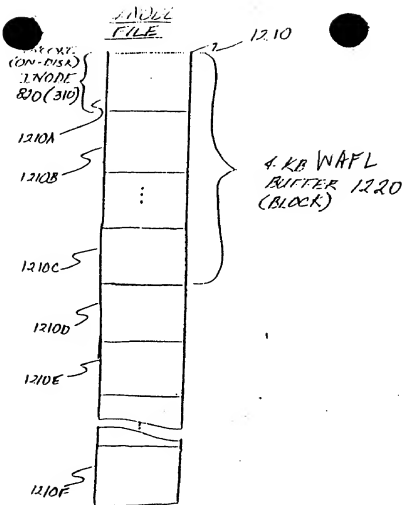


FIGURE 12

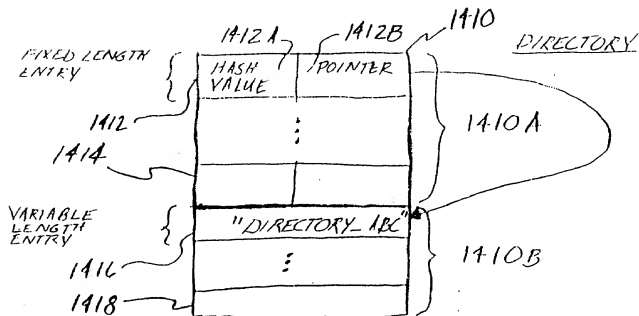


FIGURE 14

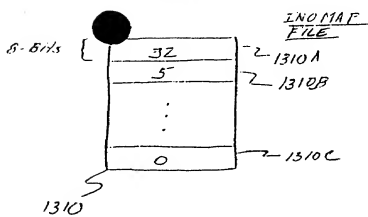


FIGURE 13 A

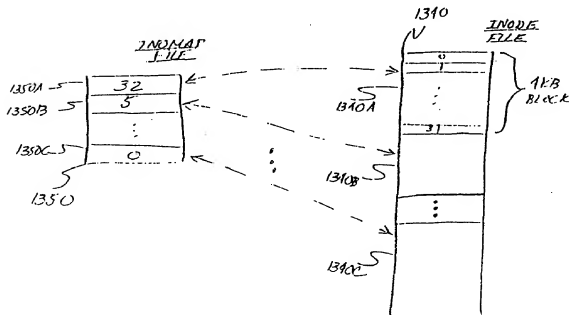


FIGURE 13 B

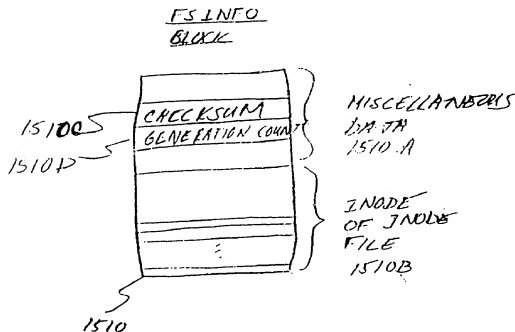


FIGURE 15

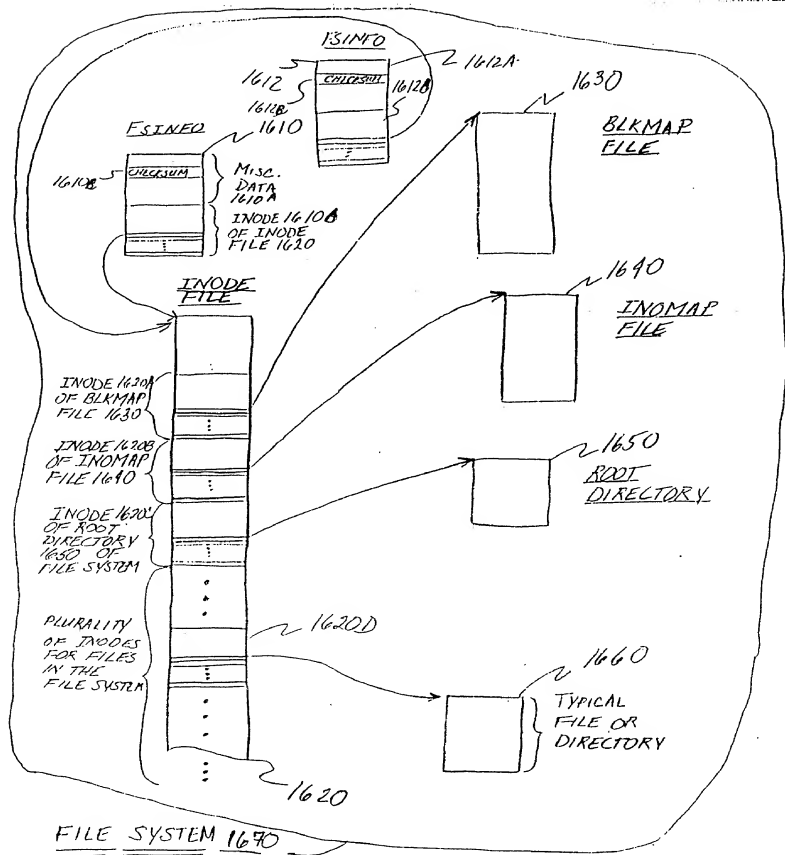


FIGURE 16

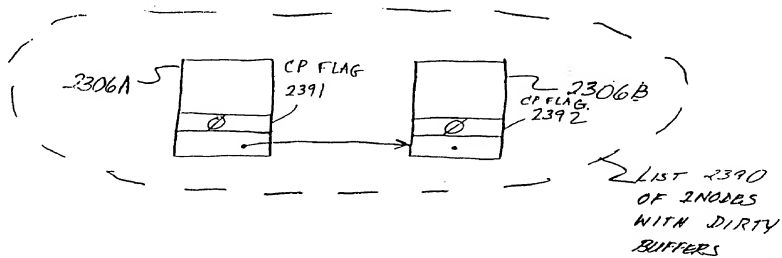


FIGURE 17A

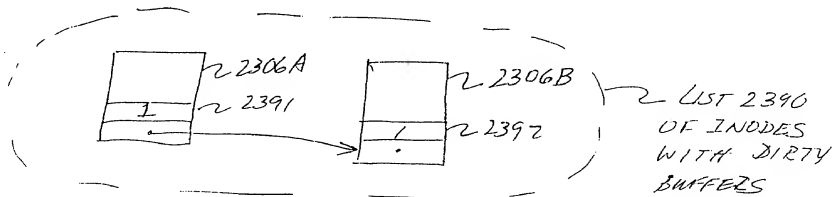


FIGURE 17I

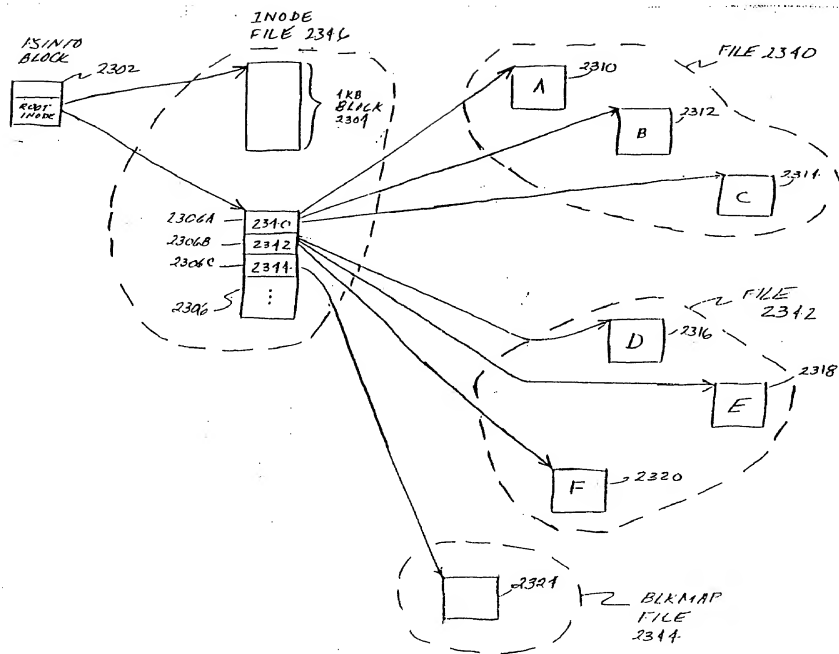


FIGURE 17B

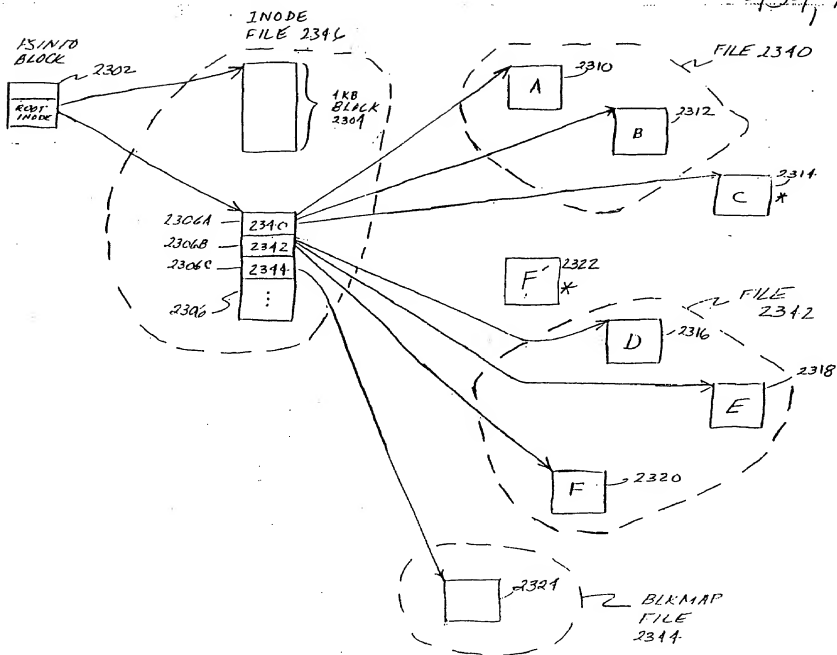


FIGURE 17C

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	BIT1 (CP-BIT)			BIT1 BIT0 (IS-BIT)		
2304	/	...	/	/	2-2324A	} 1KB BLACK 2324
2306	/	...	/	/	2-2324B	
2308	Ø	...	Ø	Ø	2-2324C	
2310	/	...	/	/	2-2324D	
2312	/	...	/	/	2-2324E	
2314	/	...	/	Ø	2-2324F	
2316	/	...	/	/	2-2324G	
2318	/	...	/	/	2-2324H	
2320	/	...	/	/	2-2324I	
2322	Ø	...	Ø	Ø	2-2324J	
2324	/	...	/	/	2-2324K	
2326	Ø	...	Ø	Ø	2-2324L	
2328	Ø	...	Ø	Ø	2-2324M	
		⋮				

FIGURE 17D

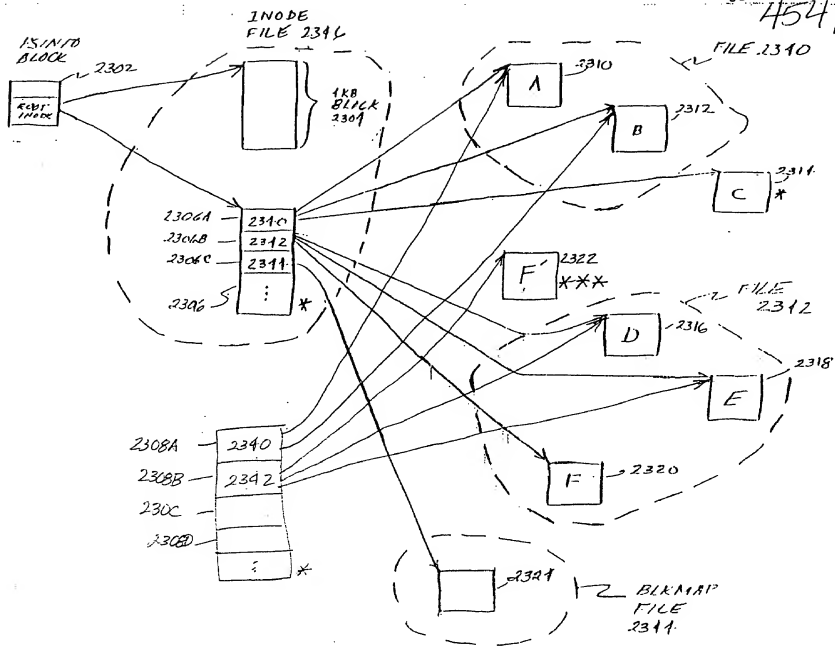


FIGURE 17F

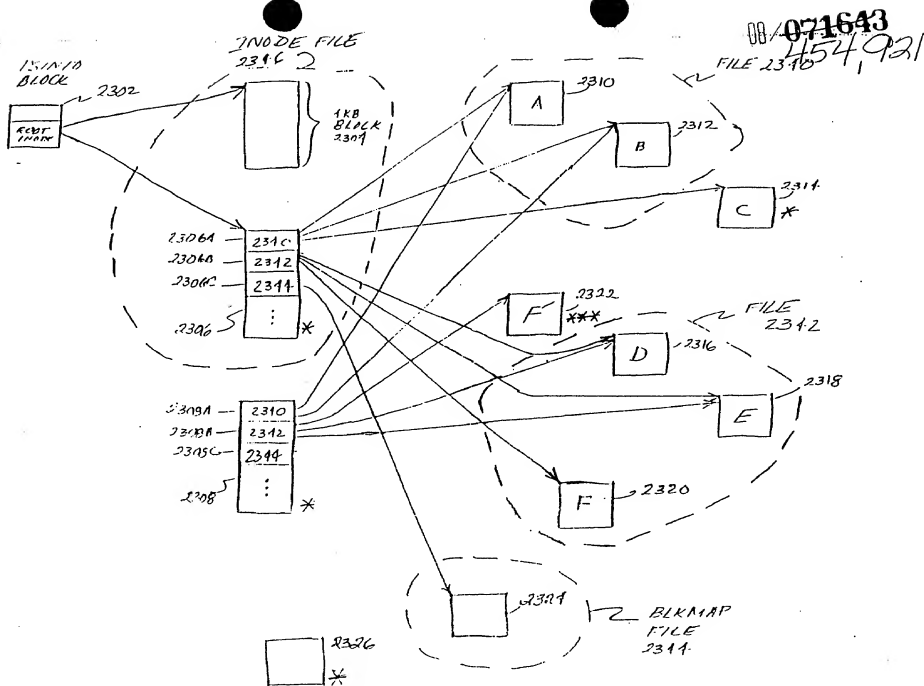


FIGURE 176

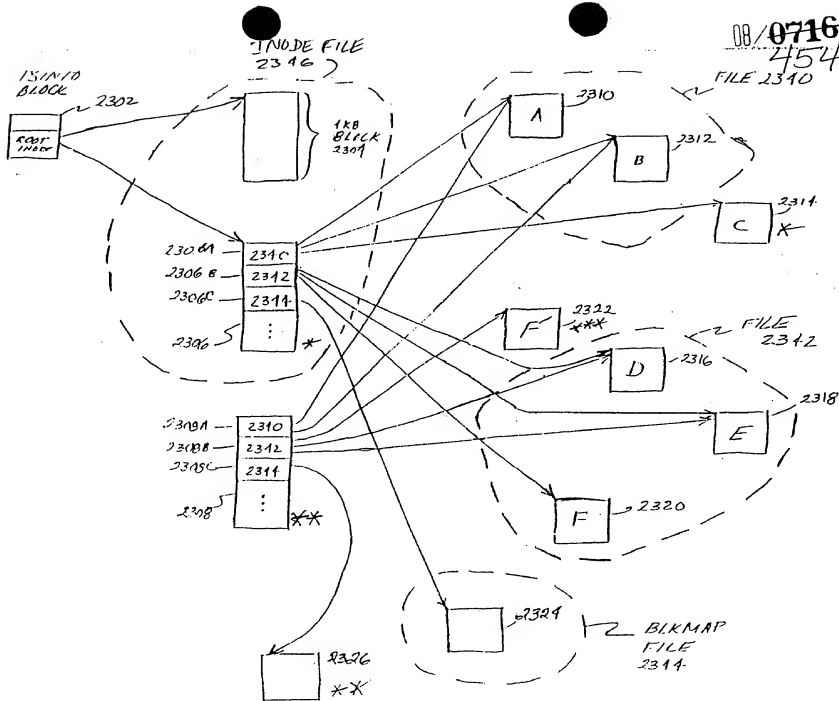


FIGURE 17A

BIT 31 (CP-BIT)		BIT 1 BIT 0 (IS-BIT)		
BLACK # 2304	↔ 1	...	1 1	52326A
2306	↔ 0	...	1 0	52326B
2308	↔ 1	...	0 1	52326C
2310	↔ 1	...	1 1	52326D
2312	↔ 1	...	1 1	52326E
2314	↔ 0	...	1 0	52326F
2316	↔ 1	...	1 1	52326G
2318	↔ 1	...	1 1	52326H
2320	↔ 0	...	1 0	52326I
2322	↔ 1	...	0 1	52326J
2324	↔ 0	...	1 0	52326K
2326	↔ 1	...	0 1	52326L
2328	↔	...		
		⋮		

41B
BLACK
2326

FIGURE 17 J

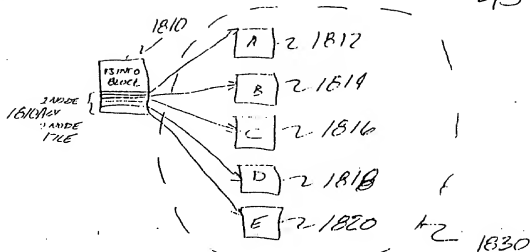


FIGURE 18A

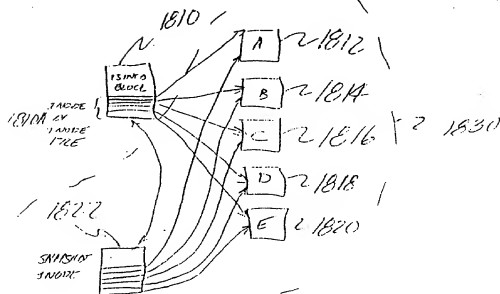


FIGURE 18B

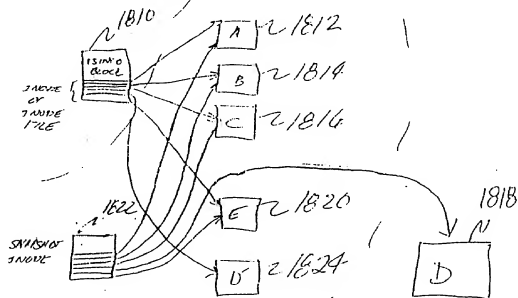


FIGURE 18C

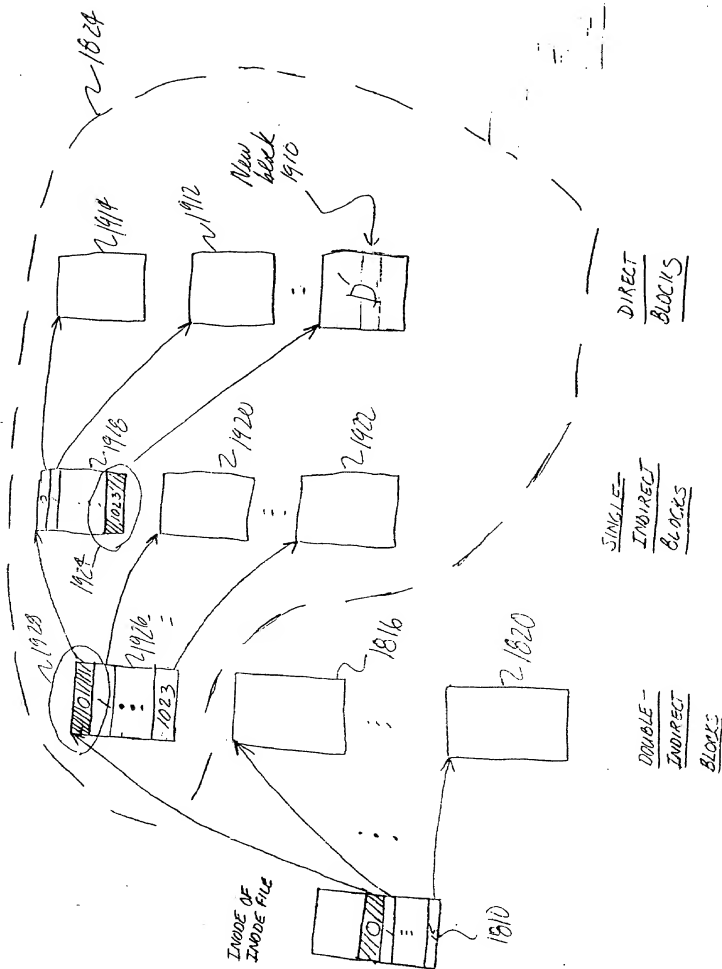


FIGURE 19

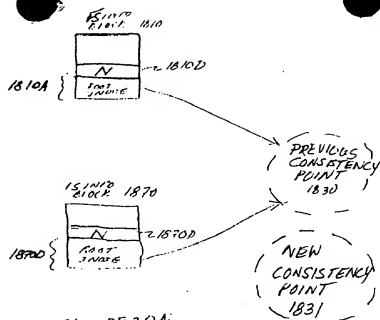


FIGURE 20A

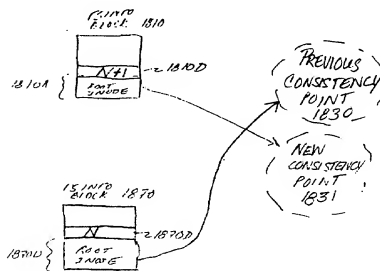


FIGURE 20B

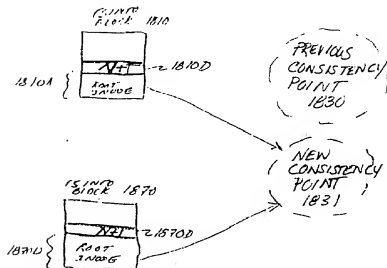


FIGURE 20C

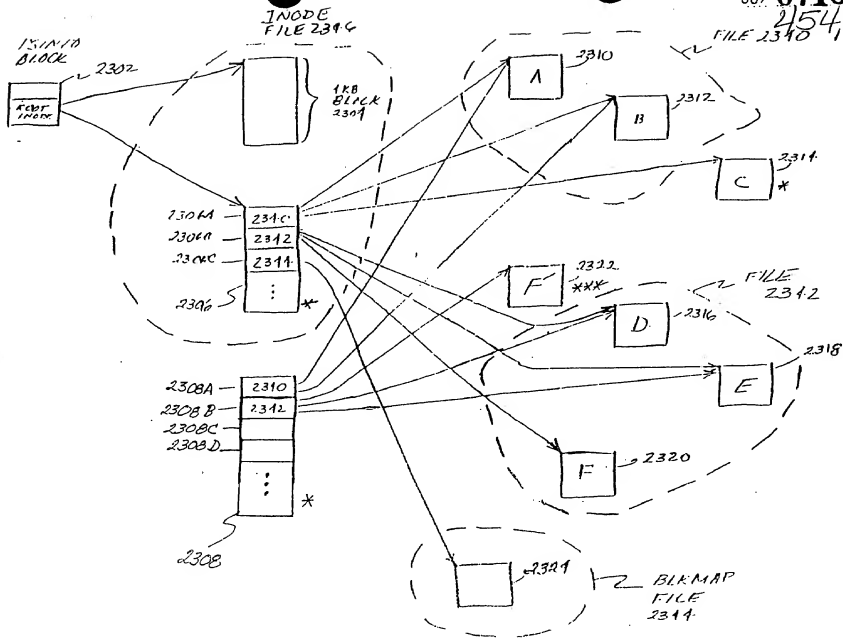


FIGURE 21A

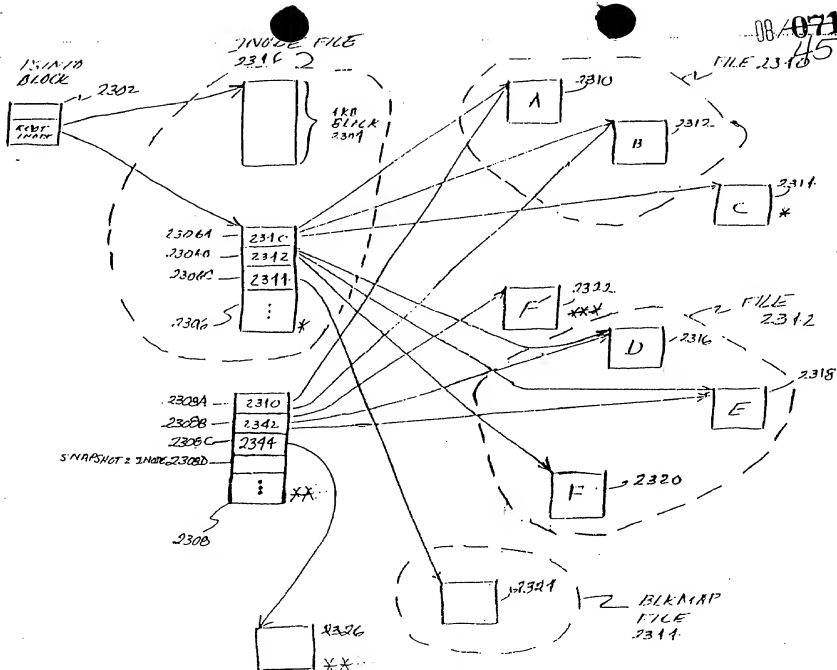


FIGURE 21C

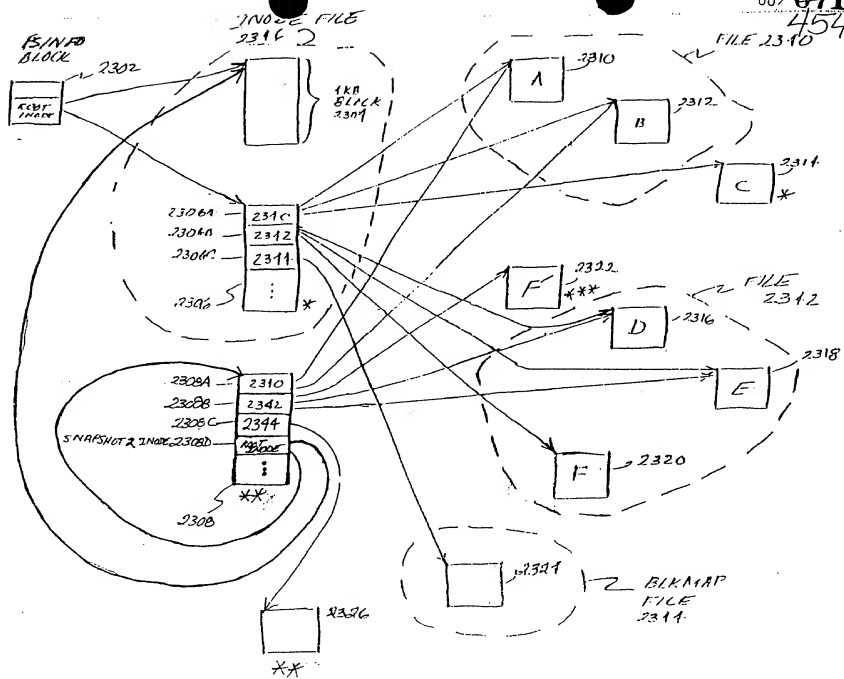


FIGURE 2/D

SNAPSHOT2
BIT

	B1131 (C1-B11)			B112 B111 B110 (113-B11)	
Block # 2301 ↔	1	...	1	1	5-2326A
2306 ↔	0	...	0	1	5-2326B
2313 ↔	1	...	1	0	5-2326C
2316 ↔	1	...	1	1	5-2326D
2317 ↔	1	...	1	1	5-2326E
231A ↔	0	...	0	1	5-2326F
2316 ↔	1	...	1	1	5-2326G
2318 ↔	1	...	1	1	5-2326H
2320 ↔	0	...	0	1	5-2326I
2322 ↔	1	...	1	0	5-2326J
2321 ↔	0	...	0	1	5-2326K
2326 ↔	1	...	1	0	5-2326L
2328 ↔		...			
		⋮			

11B
0102K
2326

FIGURE 21E

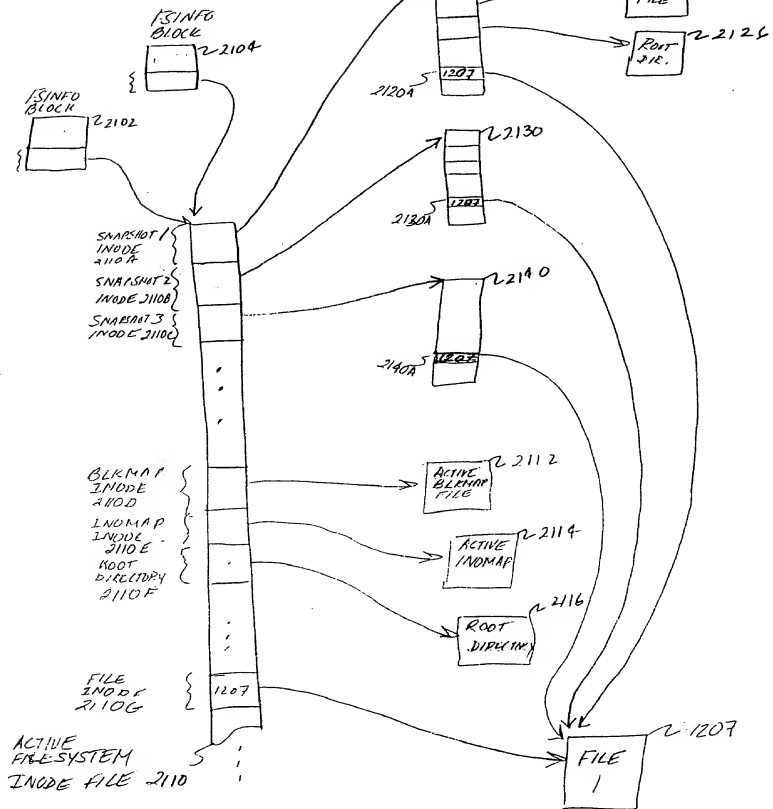


FIGURE 22

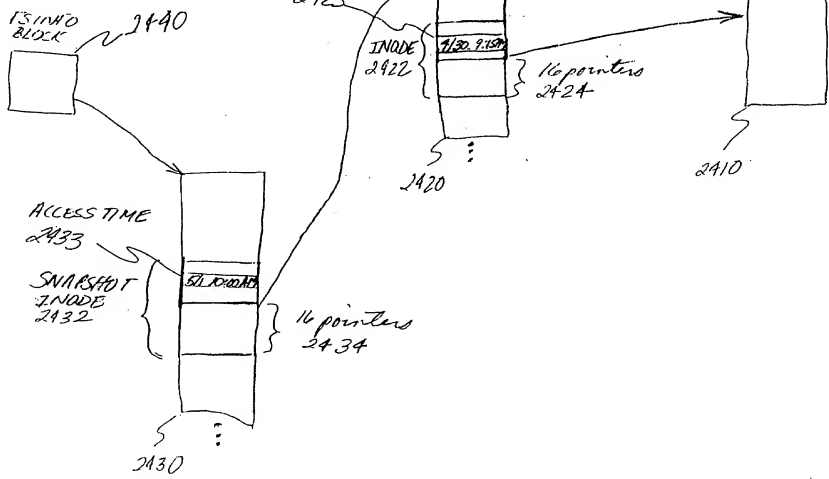


FIGURE 23A

08/071643
454021
DIRECT
WATL
BLOCK

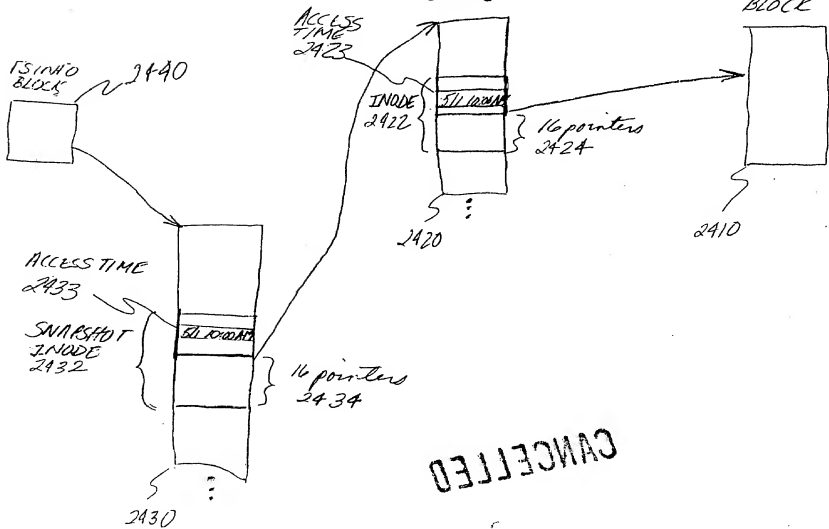


FIGURE 23 B